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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/318,443DATE: 06/09/1999
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Input Set: I318443.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Hemmati-Brivanlou, Ali
2 Weinstein, Daniel C.
3 <120> TITLE OF INVENTION: TRANSLATION INITIATION FACTOR 4AIII, AND METHODS OF USE
4 THEREOF
5 <130> FILE REFERENCE: 600-1-211 N
6 <140> CURRENT APPLICATION NUMBER: US/09/318,443
7 <141> CURRENT FILING DATE: 1999-05-25
8 <160> NUMBER OF SEQ ID NOS: 12
9 <170> SOFTWARE: PatentIn Ver. 2.0
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11 <211> LENGTH: 1245
12 <212> TYPE: DNA
13 <213> ORGANISM: Xenopus laevis
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17 ccaacgtttg atacatggg gctgaggaa gaccttctga gaggcatcta tgcttatgga 180
18 tttgagaaac catcgctat acaacagaag gcaatcaagc agatcatcaa aggaaggat 240
19 gtgatcgac aatcacagtc tggcacaggc aaaacagcaa ctttttgtgt ttctgtgcta 300
20 cagtgtttgg atattcagat ccgtgaaacc caagccttga ttttagcacc caccaaagag 360
21 ttagcacggc aaattcagaa ggtgttgc tctttggggg actacatgaa tgcgttgt 420
22 catcgctgtt tggaggcac aaatgttggg gaggatatcc gaaaatttggg ttatggcag 480
23 cacgtgttgc tggAACACC agggcgtgtt tttgatatgaa ttgcacgcag aagttt 540
24 actcgggcca taaaaatgtt agtgcgtggat gaagctgatg aaatgttgc taagggttc 600
25 aaggagcaaa tttatgtgt atacaggat ctgcctccag caacacaagt ttgtttaatc 660
26 agtgcctaccc tgccacatgaa aatcctggaa atgaccaata agtttatgac tgatccc 720
27 cgtatccttgc tggAAACGTGA tgagtggaca ctggaggca tcaagcgtt ttttgtggc 780
28 gtggagagag aagagtggaa atttgatact ttgtgtgatt tatatgacac ttgtactatt 840
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32 gcccggggat tggatgtgcc acaggctcc ttgattatca actatgatct tcccaataac 1080
33 cgagaattgt acattcacag aattggccga tcaaggaagat atggaagaaa gggtgttgc 1140
34 attaactttg tcaagaatgaa tgacatccgt atttaagag atattgagca gtactattcg 1200
35 acccagattg atgaaatgcc aatgaacgtt gctgatctt tttga 1245
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38 <212> TYPE: PRT
39 <213> ORGANISM: Xenopus laevis
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42 1 5 10 15
43 Ala Lys Arg Leu Leu Arg Glu Glu Asp Met Thr Thr Val Glu Phe Gln
44 20 25 30

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45 Thr Ser Glu Glu Val Asp Val Thr Pro Thr Phe Asp Thr Met Gly Leu
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47 Arg Glu Asp Leu Leu Arg Gly Ile Tyr Ala Tyr Gly Phe Glu Lys Pro
48 50 55 60
49 Ser Ala Ile Gln Gln Lys Ala Ile Lys Gln Ile Ile Lys Gly Arg Asp
50 65 70 75 80
51 Val Ile Ala Gln Ser Gln Ser Gly Thr Gly Lys Thr Ala Thr Phe Cys
52 85 90 95
53 Val Ser Val Leu Gln Cys Leu Asp Ile Gln Ile Arg Glu Thr Gln Ala
54 100 105 110
55 Leu Ile Leu Ala Pro Thr Lys Glu Leu Ala Arg Gln Ile Gln Lys Val
56 115 120 125
57 Leu Leu Ala Leu Gly Asp Tyr Met Asn Val Gln Cys His Ala Cys Ile
58 130 135 140
59 Gly Gly Thr Asn Val Gly Glu Asp Ile Arg Lys Leu Asp Tyr Gly Gln
60 145 150 155 160
61 His Val Val Ala Gly Thr Pro Gly Arg Val Phe Asp Met Ile Arg Arg
62 165 170 175
63 Arg Ser Leu Arg Thr Arg Ala Ile Lys Met Leu Val Leu Asp Glu Ala
64 180 185 190
65 Asp Glu Met Leu Asn Lys Gly Phe Lys Glu Gln Ile Tyr Asp Val Tyr
66 195 200 205
67 Arg Tyr Leu Pro Pro Ala Thr Gln Val Cys Leu Ile Ser Ala Thr Leu
68 210 215 220
69 Pro His Glu Ile Leu Glu Met Thr Asn Lys Phe Met Thr Asp Pro Ile
70 225 230 235 240
71 Arg Ile Leu Val Lys Arg Asp Glu Leu Thr Leu Glu Gly Ile Lys Gln
72 245 250 255
73 Phe Phe Val Ala Val Glu Arg Glu Glu Trp Lys Phe Asp Thr Leu Cys
74 260 265 270
75 Asp Leu Tyr Asp Thr Leu Thr Ile Thr Gln Ala Val Ile Phe Cys Asn
76 275 280 285
77 Thr Lys Arg Lys Val Asp Trp Leu Thr Glu Lys Met Arg Glu Ala Asn
78 290 295 300
79 Phe Thr Val Ser Ser Met His Gly Asp Met Pro Gln Lys Glu Arg Glu
80 305 310 315 320
81 Ser Ile Met Lys Glu Phe Arg Ser Gly Ala Ser Arg Val Leu Ile Ser
82 325 330 335
83 Thr Asp Val Trp Ala Arg Gly Leu Asp Val Pro Gln Val Ser Leu Ile
84 340 345 350
85 Ile Asn Tyr Asp Leu Pro Asn Asn Arg Glu Leu Tyr Ile His Arg Ile
86 355 360 365
87 Gly Arg Ser Gly Arg Tyr Gly Arg Lys Gly Val Ala Ile Asn Phe Val
88 370 375 380
89 Lys Asn Asp Asp Ile Arg Ile Leu Arg Asp Ile Glu Gln Tyr Tyr Ser
90 385 390 395 400
91 Thr Gln Ile Asp Glu Met Pro Met Asn Val Ala Asp Leu Ile Glx
92 405 410 415
93 <210> SEQ ID NO 3
94 <211> LENGTH: 532

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 96 <213> ORGANISM: Homo sapiens
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 100 ttgatcttgg ctccccacaag agagttggct gtgcagatcc agaagggct gcttgctctc 180
 101 ggtgactaca tgaatgtcca gtgccatgcc tcattggag gcaccaatgt tggcgaggac 240
 102 atcaggaagc tggattacgg acagcatgtt gtgcgggca ctccaggcg ttttttgc 300
 103 atgattcgtc gcagaagcct aaggacacgt gctatcaaaa tggtggttt ggatgaagct 360
 104 gatgaaatgt tgaataaagg tttcaaaagag cagattacg atgtatacag gtacctgcct 420
 105 ccagccacac aggtggttct catcagtgcc acgctgccac acgagattct ggagatgacc 480
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 114 Thr Gly Lys Thr Ala Thr Phe Ser Ile Ser Val Leu Gln Cys Leu Asp
 115 20 25 30
 116 Ile Gln Val Arg Glu Thr Gln Ala Leu Ile Leu Ala Pro Thr Arg Glu
 117 35 40 45
 118 Leu Ala Val Gln Ile Gln Lys Gly Leu Leu Ala Leu Gly Asp Tyr Met
 119 50 55 60
 120 Asn Val Gln Cys His Ala Cys Ile Gly Gly Thr Asn Val Gly Glu Asp
 121 65 70 75 80
 122 Ile Arg Lys Leu Asp Tyr Gly Gln His Val Val Ala Gly Thr Pro Gly
 123 85 90 95
 124 Arg Val Phe Asp Met Ile Arg Arg Arg Ser Leu Arg Thr Arg Ala Ile
 125 100 105 110
 126 Lys Met Leu Val Leu Asp Glu Ala Asp Glu Met Leu Asn Lys Gly Phe
 127 115 120 125
 128 Lys Glu Gln Ile Tyr Asp Val Tyr Arg Tyr Leu Pro Pro Ala Thr Gln
 129 130 135 140
 130 Val Val Leu Ile Ser Ala Thr Leu Pro His Glu Ile Leu Glu Met Thr
 131 145 150 155 160
 132 Asn Lys Phe Met Thr Asp Pro Ile Arg Ile Leu Val Gly Ile Pro Ala
 133 165 170 175
 134 Ala
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 138 <213> ORGANISM: Homo sapiens
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 142 gctgctcaaa gaggaagaca tgactaaagt ggaattcgag accagcgagg aggtggatgt 180
 143 gaccccaacg ttgcacacca tggcctcg ggaggacctg ctgcggggca tctacgcta 240
 144 cggtttgaa aaaccatcag caatccagca acgagcaatc aagcagatca tcaaaggag 300

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 146 cctccagtgt ttggatattc aggttctgt aactcaagct ttgatcttgg ctcccacaag 420
 147 agagttggct gtgcagatcc agaaggggct gcttgcctc ggtgactaca tgaatgtcca 480
 148 gtgccatgcc tgcattggag gcaccaatgt tggcgaggac atcagaagc tggattacgg 540
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 151 tttcaaaagag cagatttacg atgtatacag gtacctgcct tcagccacac aggtgggtct 720
 152 catcagtgcc acgctgccac acgagattct ggagatgacc aacaagttca tgaccgaccc 780
 153 aatccgcatac ttggtaaacat gtgatgaatt gactctggaa ggcataagc aattttcg 840
 154 ggcagtggag agggaaagagt gggaaatttga cactctgtgt gacctctacg acacactgac 900
 155 catcaactcag gcggcatct tctgcaacac caaaagaaaag gtggactggc tgacggagaa 960
 156 aatgagggaa gccaacttca ctgtatccctc aatgcatgga gacatcccc agaaagagcg 1020
 157 ggagtccatc atgaaggagt tccggctggg cgccagccga gtgcttattt ctacagatgt 1080
 158 ctggggccagg gggttggatg tccctcagggt gtccttcattc attaactatg atctccctaa 1140
 159 taacagagaa ttgtacatac acagaattgg gagatcagggt caatacggcc ggaagggtgt 1200
 160 ggccattaaac ttgttaaaga atgacgacat cgcataccctc agagatatcg agcagacta 1260
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 163 gattctactt aatggggttt atatggactt tcttctcata aatggccctgc cgtctccctt 1440
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 167 <211> LENGTH: 411
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 169 <213> ORGANISM: Homo sapiens
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 35 40 45
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 50 55 60
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 65 70 75 80
 Gln Ser Gln Ser Gly Thr Gly Lys Thr Ala Thr Phe Ser Ile Ser Val
 85 90 95
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 100 105 110
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 115 120 125
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 130 135 140
 Asn Val Gly Glu Asp Ile Arg Lys Leu Asp Tyr Gly Gln His Val Val
 145 150 155 160
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 165 170 175
 Arg Thr Arg Ala Ile Lys Met Leu Val Leu Asp Glu Ala Asp Glu Met
 180 185 190

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195 Leu Asn Lys Gly Phe Lys Glu Gln Ile Tyr Asp Val Tyr Arg Tyr Leu
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197 Pro Ser Ala Thr Gln Val Val Leu Ile Ser Ala Thr Leu Pro His Glu
198 210 215 220
199 Ile Leu Glu Met Thr Asn Lys Phe Met Thr Asp Pro Ile Arg Ile Leu
200 225 230 235 240
201 Val Lys Arg Asp Glu Leu Thr Leu Glu Gly Ile Lys Gln Phe Phe Val
202 245 250 255
203 Ala Val Glu Arg Glu Glu Trp Lys Phe Asp Thr Leu Cys Asp Leu Tyr
204 260 265 270
205 Asp Thr Leu Thr Ile Thr Gln Ala Val Ile Phe Cys Asn Thr Lys Arg
206 275 280 285
207 Lys Val Asp Trp Leu Thr Glu Lys Met Arg Glu Ala Asn Phe Thr Val
208 290 295 300
209 Ser Ser Met His Gly Asp Met Pro Gln Lys Glu Arg Glu Ser Ile Met
210 305 310 315 320
211 Lys Glu Phe Arg Ser Gly Ala Ser Arg Val Leu Ile Ser Thr Asp Val
212 325 330 335
213 Trp Ala Arg Gly Leu Asp Val Pro Gln Val Ser Leu Ile Ile Asn Tyr
214 340 345 350
215 Asp Leu Pro Asn Asn Arg Glu Leu Tyr Ile His Arg Ile Gly Arg Ser
216 355 360 365
217 Gly Gln Tyr Gly Arg Lys Gly Val Ala Ile Asn Phe Val Lys Asn Asp
218 370 375 380
219 Asp Ile Arg Ile Leu Arg Asp Ile Glu Gln Tyr Tyr Ser Thr Gln Ile
220 385 390 395 400
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222 405 410
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224 <211> LENGTH: 1682
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
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